



1600

1632

RAW SEQUENCE LISTING

DATE: 11/21/2002

PATENT APPLICATION: US/09/771,208A

TIME: 10:06:45

Input Set : A:\407T-923710US.ST25.txt

Output Set: N:\CRF4\11212002\I771208A.raw

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DEC 04 2002

TECH CENTER 1600/2900

P.6

ENTERED

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3 <110> APPLICANT: MEDRANO, JUAN
4 BRADFORD, ERIC
5 HORVAT, SIMON
7 <120> TITLE OF INVENTION: CLONING OF A HIGH-GROWTH GENE
9 <130> FILE REFERENCE: 407T-923710US
11 <140> CURRENT APPLICATION NUMBER: US 09/771,208A
12 <141> CURRENT FILING DATE: 2001-01-26
14 <150> PRIOR APPLICATION NUMBER: US 08/999,477
15 <151> PRIOR FILING DATE: 1997-12-29
17 <160> NUMBER OF SEQ ID NOS: 21
19 <170> SOFTWARE: PatentIn version 3.0
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22 <211> LENGTH: 1667
23 <212> TYPE: DNA
24 <213> ORGANISM: Mus musculus
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31 ggaagccaga gacaagcagg tactccgctc cctgcgtctg gagctgggtg ccgagggtact      180
33 ggtggaagga ctggttcttc agtaccttta ccaggaagga attttgacag aaaaccacat      240
35 tcaagaaatc aaagctcaaa ccacaggcct ccggaagaca atgctgttgc tggacatcct      300
37 gccttccagg ggccccaag cttttgacac ctctctcgat tccctccagg aatttccctg      360
39 ggtaagagag aagctggaga aggcgagaga ggaagtctca gccgagctgc ctacagggtga      420
41 ctggatggcc ggaatccctt cacacatcct cagcagctcg ccatcagacc agcagattaa      480
43 ccagctggct cagaggctag gcccggagtg ggagcccggt gtcctgtctc tgggactgtc      540
45 ccagaccgac atctaccgct gcaaggccaa ccatcccccac aacgtgcatt cgcagggtgt      600
47 ggaggccttt gtccgctggc gccagcggtt tgggaagcag gccaccttcc taagcttaca      660
49 caagggcctc caggcaatgg aggetgatcc ctccctgtct cagcacatgc tggagtgaac      720
51 tgaccccccc ccgcgcccc cccccacttg ctgtgggggt ggtggggcgt gggttcccaa      780
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57 gaagactgcg ctgttgtaac tatggtttgg aactttgtgg ctggccttta acaggaggcc      960
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63 tagctcttca taatggtgat gataataaaa aagcaaattg tgatatagaa tgtgcctctt      1140
65 tcaatgagag agtattatat cacacacaca cacacacaca cacacacaca tacacacaca      1200
67 cacaccaatc ttctgttgca tagacggagg gtgtaaaaat atgggagtg agcaagattg      1260
69 atagcagtca tgtgacgacg gagataaata actcaggcag gatgtataga ttaagcatga      1320
71 gacaccgaag ctccctgcag aggccaggga gagaacggaa gaccttcac ttaacaaatt      1380
73 gtatgaggag tctctgtcca ttgtttaaag gcattggatc agagacaaga gggctcagtg      1440
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77 cagcctttca ttaactgcac atagtgttag ccagacaggt gtacgtgttt gtcaccccat      1560
79 ctaagagact gaagcaggag gatcacctgt acatgactgc ttctttcaac attttaaaat      1620

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92 gaggtactgg tggaaggact gggtcttcag tacctttacc aggaaggaat ttgacagaa 120
94 aaccacattc aacaaatcaa agctcaaacc acaggcctcc ggaagacaat gctgttgctg 180
96 gacatcctgc cttccagggg ccccaaagct ttgacacct tctcagattc cctccaggaa 240
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100 acag 304
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111 ggtactggtg gaggggctag tctccagta tctttatcag gaaggggtct tgacagaaaag 120
113 ccacgttcaa gaaattaaag ctcaagccac aggcctccgg 160
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117 <211> LENGTH: 539
118 <212> TYPE: PRT
119 <213> ORGANISM: Mus musculus
121 <400> SEQUENCE: 4
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124 1 5 10 15
126 Ser Gly Leu Asn Val Ala Leu Leu Glu Ala Arg Gly Ser Glu Arg Leu
127 20 25 30
129 Glu Ala Arg Gly Leu Glu Gly Leu Leu Glu Gly Leu Tyr Ala Leu Ala
130 35 40 45
132 Gly Leu Val Ala Leu Leu Glu Val Ala Leu Gly Leu Gly Leu Tyr Leu
133 50 55 60
135 Glu Val Ala Leu Leu Glu Gly Leu Asn Thr Tyr Arg Leu Glu Thr Tyr
136 65 70 75 80
138 Arg Gly Leu Asn Gly Leu Gly Leu Tyr Ile Leu Glu Leu Glu Thr His
139 85 90 95
141 Arg Gly Leu Ala Ser Asn His Ile Ser Ile Leu Glu Gly Leu Asn Gly
142 100 105 110
144 Leu Ile Leu Glu Leu Tyr Ser Ala Leu Ala Gly Leu Asn Thr His Arg
145 115 120 125
147 Thr His Arg Gly Leu Tyr Leu Glu Ala Arg Gly Leu Tyr Ser Thr His
148 130 135 140
150 Arg Met Glu Thr Leu Glu Leu Glu Leu Glu Ala Ser Pro Ile Leu Glu
151 145 150 155 160
153 Leu Glu Pro Arg Ser Glu Arg Ala Arg Gly Gly Leu Tyr Pro Arg Leu
154 165 170 175
156 Tyr Ser Ala Leu Ala Pro His Glu Ala Ser Pro Thr His Arg Pro His
157 180 185 190

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159 Glu Leu Glu Ala Ser Pro Ser Glu Arg Leu Glu Gly Leu Asn Gly Leu
160      195      200      205
162 Pro His Glu Pro Arg Thr Arg Pro Val Ala Leu Ala Arg Gly Gly Leu
163      210      215      220
165 Leu Tyr Ser Leu Glu Gly Leu Leu Tyr Ser Ala Leu Ala Ala Arg Gly
166 225      230      235      240
168 Gly Leu Gly Leu Val Ala Leu Ser Glu Arg Ala Leu Ala Gly Leu Leu
169      245      250      255
171 Glu Pro Arg Thr His Arg Gly Leu Tyr Ala Ser Pro Thr Arg Pro Met
172      260      265      270
174 Glu Thr Ala Leu Ala Gly Leu Tyr Ile Leu Glu Pro Arg Ser Glu Arg
175      275      280      285
177 His Ile Ser Ile Leu Glu Leu Glu Ser Glu Arg Ser Glu Arg Ser Glu
178      290      295      300
180 Arg Pro Arg Ser Glu Arg Ala Ser Pro Gly Leu Asn Gly Leu Asn Ile
181 305      310      315      320
183 Leu Glu Ala Ser Asn Gly Leu Asn Leu Glu Ala Leu Ala Gly Leu Asn
184      325      330      335
186 Ala Arg Gly Leu Glu Gly Leu Tyr Pro Arg Gly Leu Thr Arg Pro Gly
187      340      345      350
189 Leu Pro Arg Val Ala Leu Val Ala Leu Leu Glu Ser Glu Arg Leu Glu
190      355      360      365
192 Gly Leu Tyr Leu Glu Ser Glu Arg Gly Leu Asn Thr His Arg Ala Ser
193      370      375      380
195 Pro Ile Leu Glu Thr Tyr Arg Ala Arg Gly Cys Tyr Ser Leu Tyr Ser
196 385      390      395      400
198 Ala Leu Ala Ala Ser Asn His Ile Ser Pro Arg His Ile Ser Ala Ser
199      405      410      415
201 Asn Val Ala Leu His Ile Ser Ser Glu Arg Gly Leu Asn Val Ala Leu
202      420      425      430
204 Val Ala Leu Gly Leu Ala Leu Ala Pro His Glu Val Ala Leu Ala Arg
205      435      440      445
207 Gly Thr Arg Pro Ala Arg Gly Gly Leu Asn Ala Arg Gly Pro His Glu
208      450      455      460
210 Gly Leu Tyr Leu Tyr Ser Gly Leu Asn Ala Leu Ala Thr His Arg Pro
211 465      470      475      480
213 His Glu Leu Glu Ser Glu Arg Leu Glu His Ile Ser Leu Tyr Ser Gly
214      485      490      495
216 Leu Tyr Leu Glu Gly Leu Asn Ala Leu Ala Met Glu Thr Gly Leu Ala
217      500      505      510
219 Leu Ala Ala Ser Pro Pro Arg Ser Glu Arg Leu Glu Leu Glu Gly Leu
220      515      520      525
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223      530      535
225 <210> SEQ ID NO: 5
226 <211> LENGTH: 20
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial
230 <220> FEATURE:

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Input Set : A:\407T-923710US.ST25.txt

Output Set: N:\CRF4\11212002\I771208A.raw

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233 <400> SEQUENCE: 5
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252 <213> ORGANISM: Artificial
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255 <223> OTHER INFORMATION: PCR primer
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263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial
266 <220> FEATURE:
267 <223> OTHER INFORMATION: PCR primer
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281 aaaacacatg ctatggtttg aatggaaaaa tatcccatga aggcttatgt atttgagtca    120
283 cttcttagct ggtagcactc acttttgaag gctgtaaagc cttcaatctg tgggtcctac    180
285 ccctttggca aaccttgatc tccaaagtta cataagcaca ggcacacact tccacttct    240
287 ctgagggttt ctaccaagaa aggatcaacc attcataaaa tgttggtcct agtgaacct    300
289 gcacattgta gaggttaaa aagttaatt tgggcctcca actcactaca caggaactcc    360
291 agcgggatcc gcctgtccgt tcatgctaac ctttcaccga catcttgttt ttaagtttac    420
293 agaaaacggt agggacctaa agaaggtcat tacattacag tacattacag tacaacagaa    480
295 gttacaaagt agcaatgagg ggcttgggga tttagctcag tgctagagcg ctgtgcctagc    540
297 aagtgcaga ccctagggtt cgtcctcagc tctgaaaaat caaaacaaaa caaaacaaag    600
299 tagcaatgat aataatttta tgggtgaggg gtcaccatga tatgaggaac tgtattaaac    660
301 ggtcgttgca ttagggagga tgaggaccac tgtggggctc agctgaagga agtgagttgc    720
303 tgggtgtagg caccggagtg ctagatgtaa accggtttcc tgtctccctt ctaaggctga    780
305 ctgcaccact aattcctgcc tcccgtggag ggtgctttcc aggcctcaag ccttctgcc    840
307 atgttggaat gtgtcctgtg aaccatgaac cgagatcaat ctttctccc ttccatcacc    900
309 tctgccaggt ggtttggtca tagtactcag tagagtaagg aggcctggaag atttactaca    960
311 cctgacaaag aaaaattaat ctgtatgatc tcaaaaaaaaa aaaaaaaaaa aacaccacca    1020

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Output Set: N:\CRF4\11212002\I771208A.raw

313	ccaacaacaa	aaaaaccaac	aaaaaaccaa	aacccttttag	gagtgcagaa	gcacaggcac	1080
315	acacttccac	ttcctctgag	gtttttctacc	aagaaaggat	caaccattca	taaaacgttg	1140
317	gtcttagtta	tccctgcaca	ttgtagaggc	ttaaaaaagt	taacttgggc	ctccaactca	1200
319	ctacacagaa	ctccagaggg	atccgcctgt	ccgttcatgc	taacctttca	ccgacatctt	1260
321	gtttttaagt	ttacagaaaa	cgtaggggac	ctaaagaagg	taagcatcct	gctaagttac	1320
323	tccctggctt	tacacaggct	ttctaaaaact	tgagtaagag	gcacccctcc	catcaaagat	1380
325	tccaggaaaa	cagcctcccc	cctccgcggc	cacacatacg	aatctatcgc	tgacaaaagcc	1440
327	cctgtaagct	ggcttatgtc	ctcccctcgc	gttcaccatt	ctgtaagtgc	atagaattat	1500
329	ttaagaggaa	aaaaattact	gtggataaaa	attggttcgg	ggccttgga	ttggccggtc	1560
331	gtgtgtgtt	tccttccagg	gccggcaggc	ggggcaccag	gcaaggcttg	gaagccgcgc	1620
333	ctctctcaac	ctctcctggc	cacccttgcc	caacttcccc	atagacacag	cttcaactaa	1680
335	aagtggccat	tgacctttca	agcttttgag	cagtggggca	acagaacagt	atttcaaaga	1740
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341	cgtgcctgga	tgccggcgcg	gaggctaggt	ggcctcttac	agagtgggag	gtgagggtcc	1920
343	caataggaaa	gaagtactgg	gatcaatacg	aactccgggt	ccctggcttt	gcaaggattc	1980
345	acagagacaa	acgcaccagg	cctgtgaccc	cgcaccccac	ccgggcacag	gtaagggcac	2040
347	ctcctctgta	gggtggccag	gggtgggtctc	ccgaagggca	agcaggagtt	gagctgagga	2100
349	ggaaaggaga	agctgggcaa	ggctgatgca	ggggactacc	agttggagct	ccagggggga	2160
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357	cggacatctg	agccccgccc	ccttcccgc	cgttggtcct	gcacccaca	tgaggagag	2400
359	gagggctcgc	tctggcaggc	gcacagcggg	gtggatggct	ggcctaaagg	ttccctccta	2460
361	cgtggagggg	tggggagaa	aggggctgct	attcgcggga	ccgaggtgct	cagctgttgc	2520
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369	cggccggggc	ctcttttaag	cgttgccggg	ggctgcggtc	acgtgaggcg	gattcctgga	2760
371	aaqttcctgg	aaagcggcct	ccgcgcggc	cgggcggggc	gcgagggcg	ggaggcggg	2820
373	agcgagggag	gcgcgtcggg	ctgggaagtc	gcgcgcacac	tgggctccgg	ggacagacgg	2880
375	ttaactcttg	ccaagtctcg	ccgcctctgc	ggctcccggg	ccttgggctt	ccccctgaa	2940
377	gcattgagcct	ttcctcccgc	agccgccaac	gctgcgcggg	tctcgagacg	tgcgcgccgg	3000
379	gactccaggc	gcgcgccttc	aagatccctt	gtgcccggag	cccggaaagct	tgcggcagg	3060
381	accgctcgcg	aagcccgaa	gttccgccc	gggggacagt	ggccgggagg	gcggcgggg	3120
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385	gttcaagtgc	gggtcttgcc	ccatccggac	tcaactgcct	cctctctccc	gggttccttc	3240
387	tgggtctcgg	gaaattttcc	gagcaccccc	accccccaac	aactgctacc	caaatttata	3300
389	atcctaataa	cctgatctcc	cgtcctctcc	cgcacgcctc	cgccttggct	ccccacccc	3360
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405	attcctcgac	agcgcgcgcg	gcggcagccg	caggagccgc	ggtccgcgtt	ttggagcgac	3840
407	cgcgcgtgag	ccccccatcc	togtctggag	cgtgctccag	gaagcggcag	gagtgggggt	3900
409	gagggccgct	ccgaggcagg	gatgcagcgg	ctggcgcgc	gctagcgcac	cgcagcaccc	3960

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,10,11,12,13,14,15,16,17,18,19,21